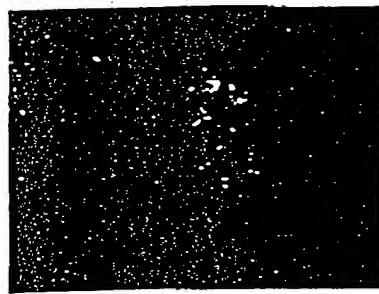


A. E16



B. P60

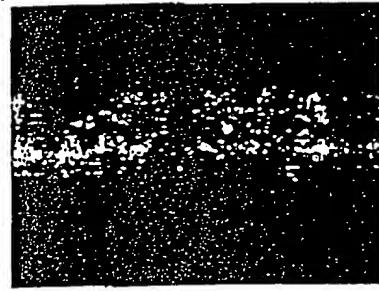


Fig. 1

Figure 2

Nestin RT-PCR of 50 rat islets



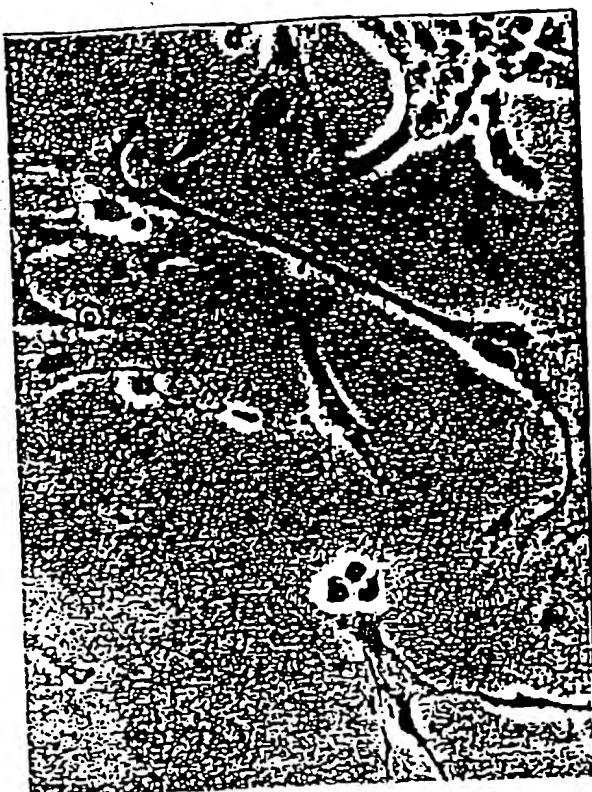
1018 bp

507 bp

Amplification of a single band of the correct size of 834 bp. In between the forward [GCAGGGCGGTGCGTGACTAC] and reverse primer [GGGTGGTGAGGGTTGAGGTTGTG] are 3 introns located.

Figure 3

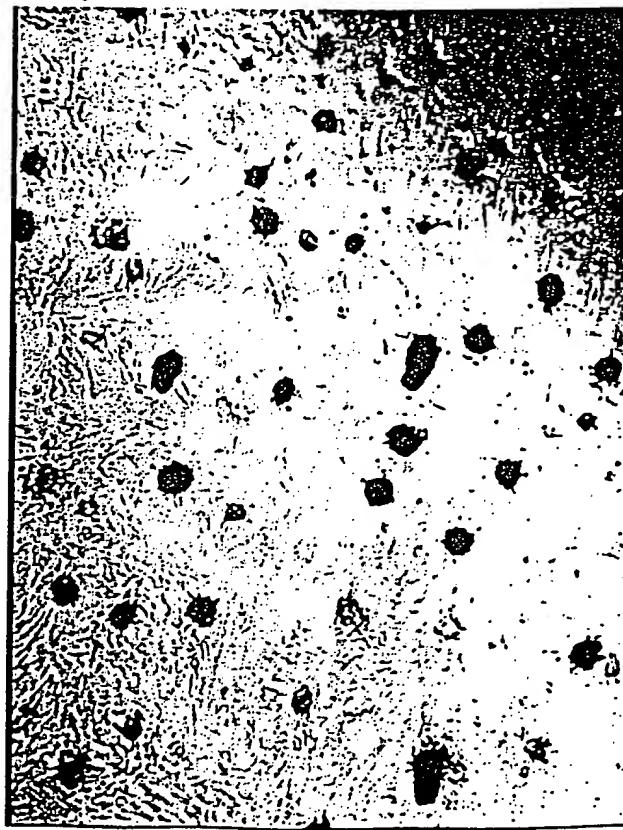
Nestin positive cells proliferate around islets in vitro



Phase contrast image of cells
surrounding cultured islets (200x)

Figure 4

Development of islet-like structures in vitro



100x



200x

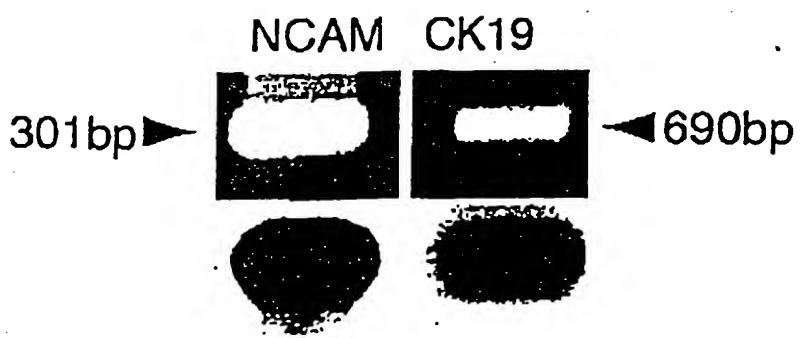


Fig. 5

Figure 6

Induction of nestin mRNA expression by high glucose in pancreatic islets

RT-PCR of 50 rat islets incubated for 4 days at 5.6 mM or 16.7 mM glucose

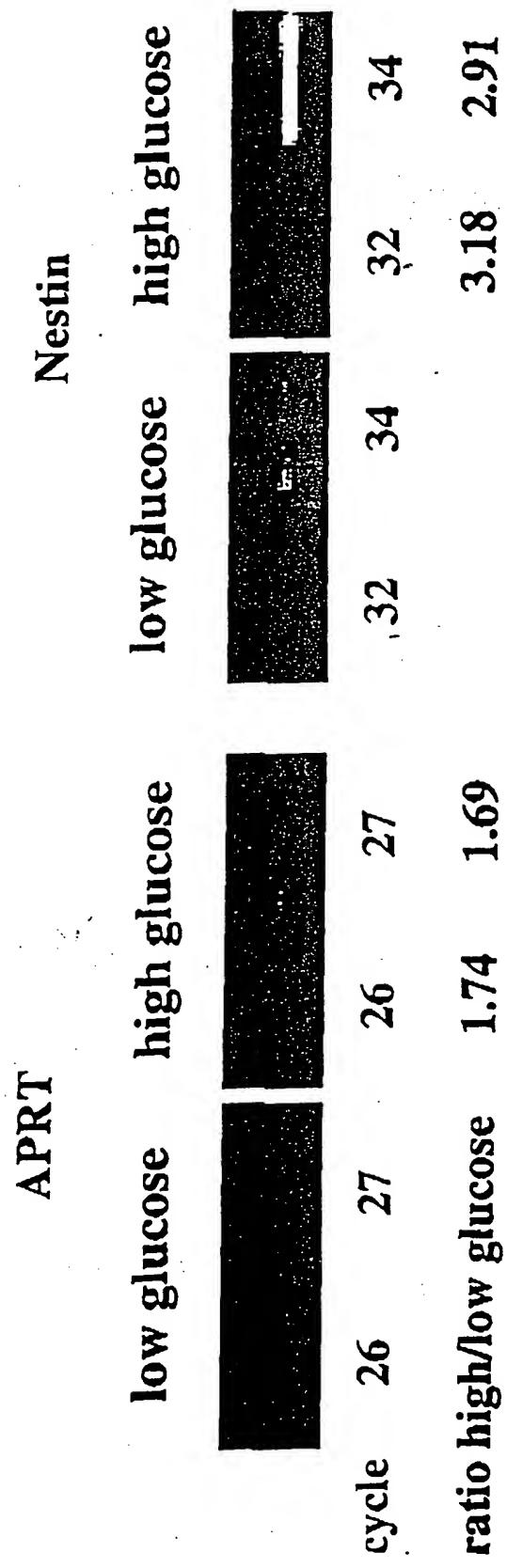


Figure 7 (v)

Nestin Amino Acid Sequence:

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Nestin Nucleotide Sequence:

BASE COUNT 1238 a 1176 c 1676 g 764 t ORIGIN 1

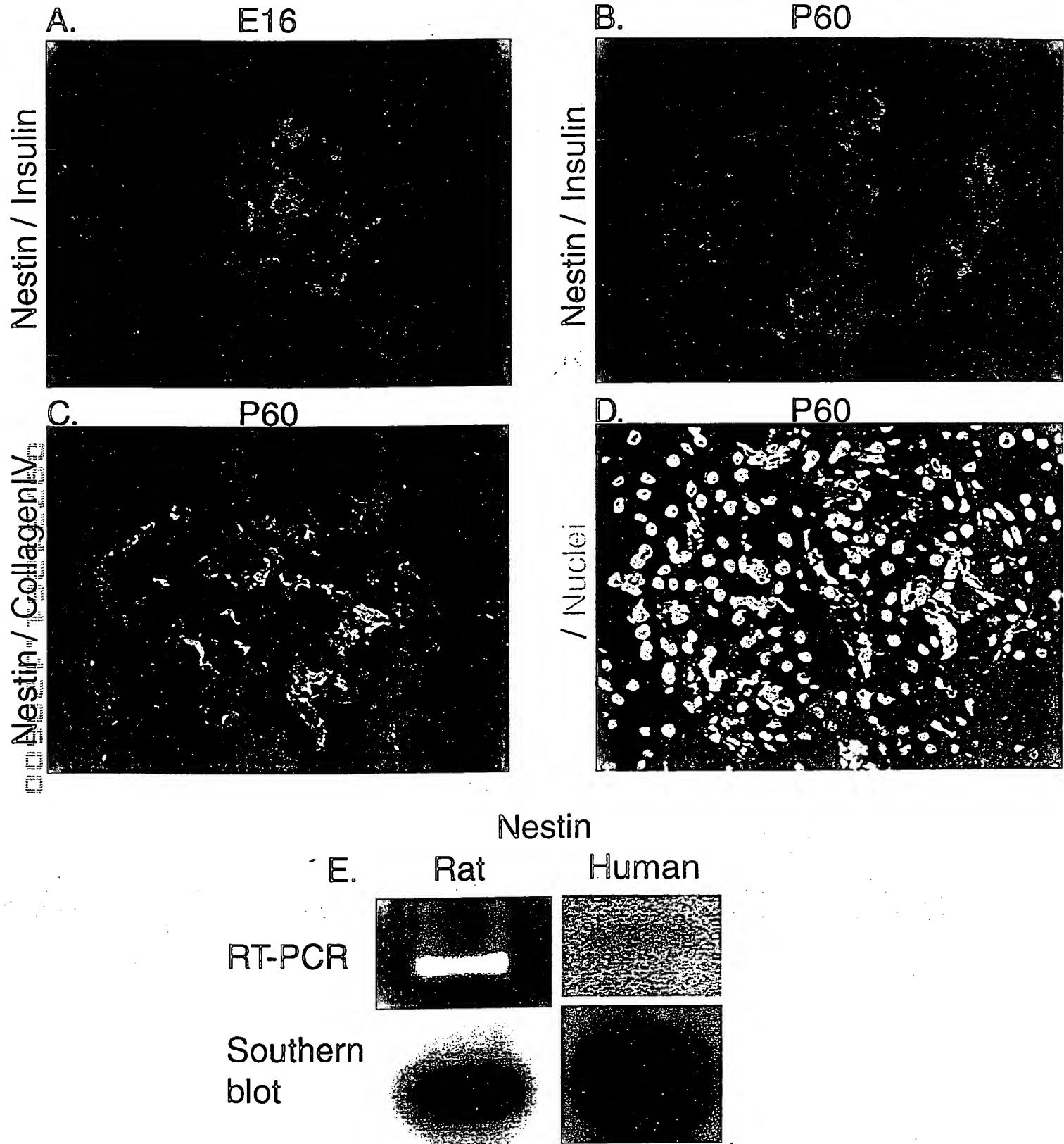
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Figure 7 (continued) (z)

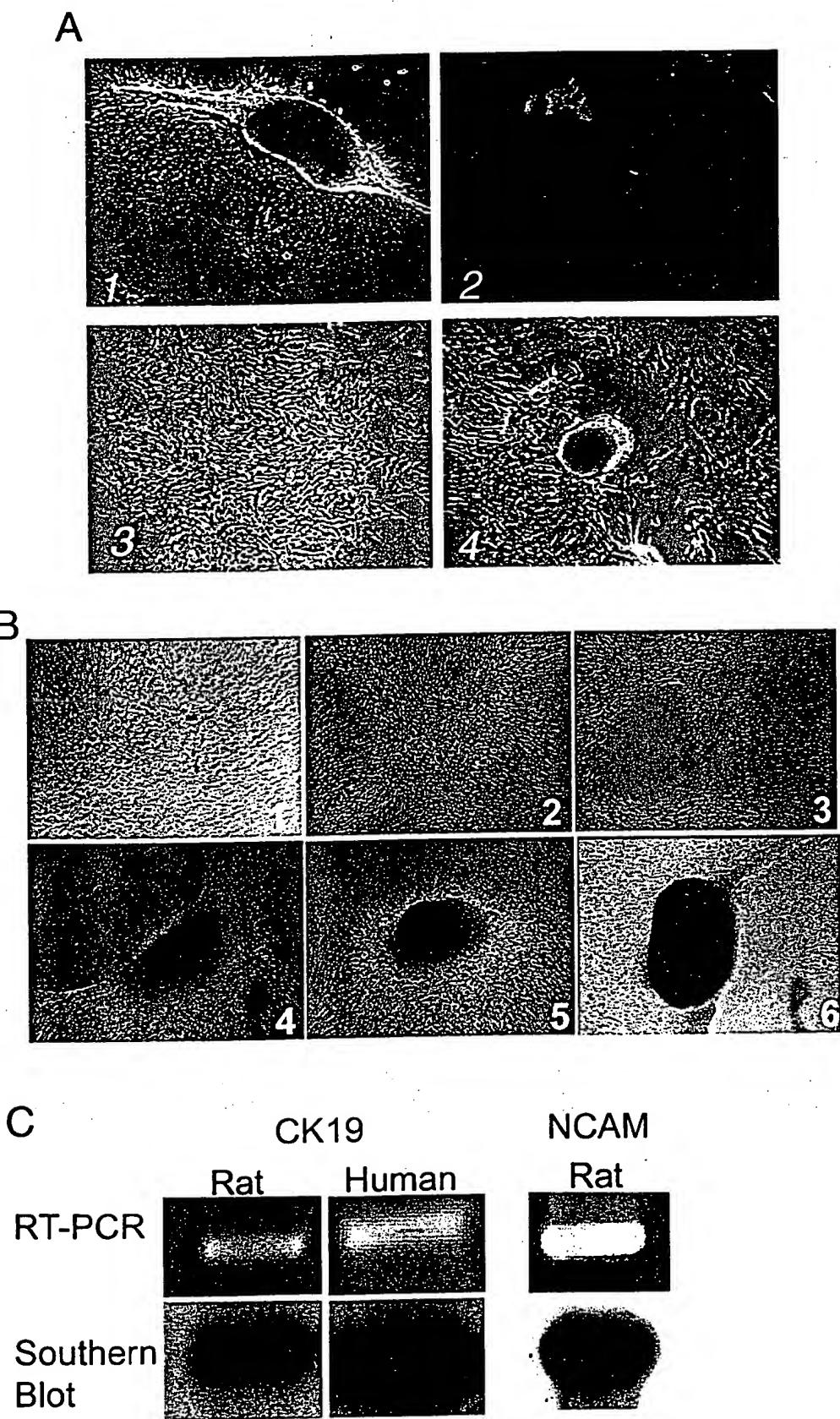
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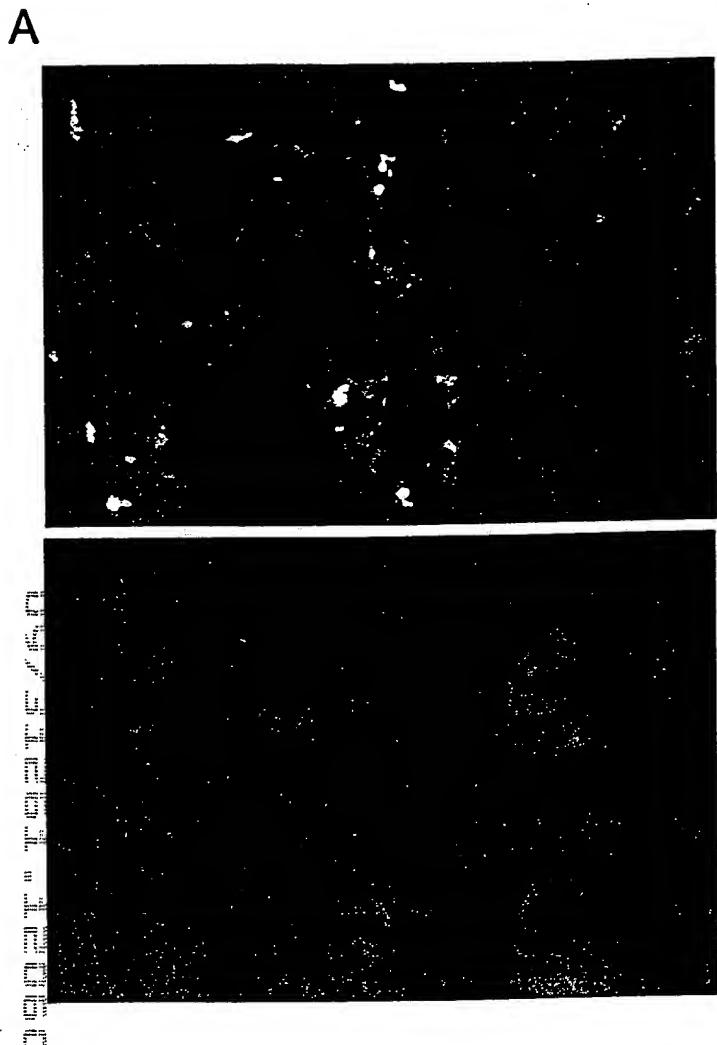
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C

	NIPC (human)	INS1
Western Blot-IDX		
Pre- immune		

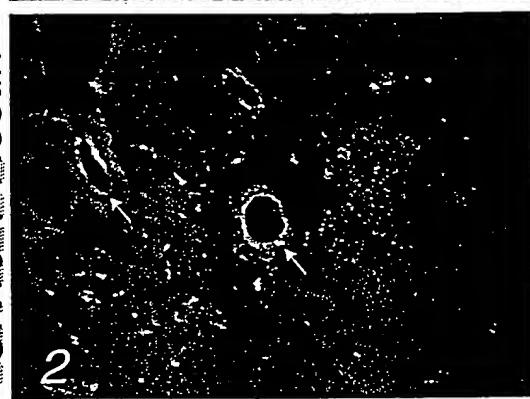
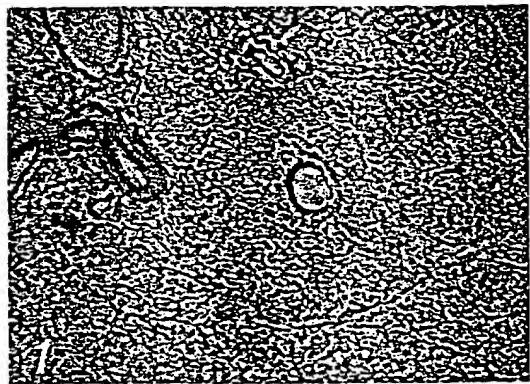
B **IDX**
Rat
RT-PCR
Southern
Blot

D

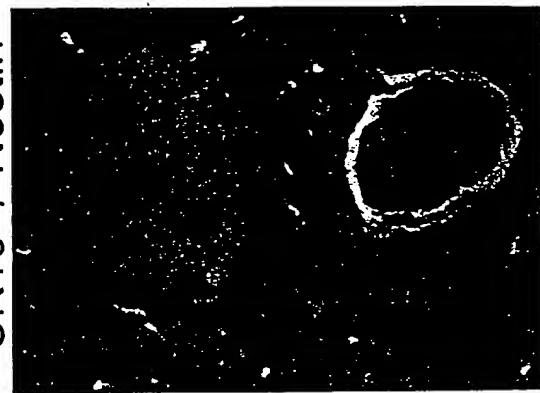
Proglucagon

	ILCs	Islets
RT-PCR		
Southern Blot		

A



B



C

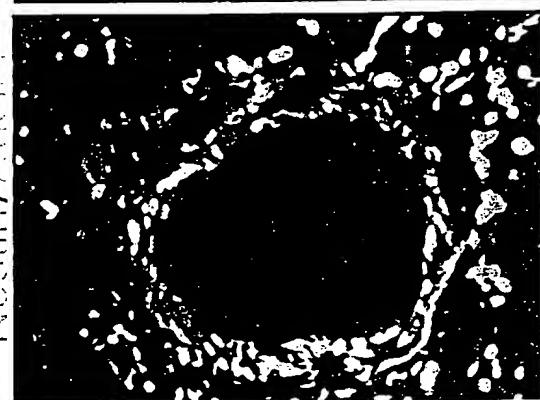
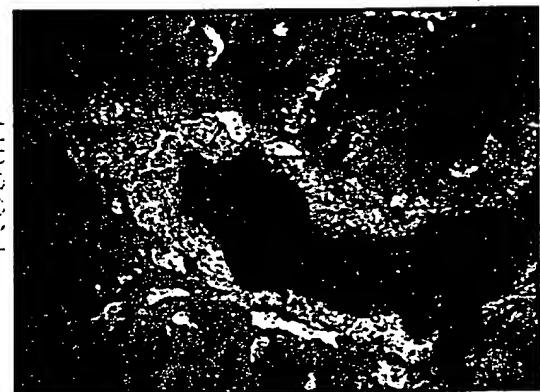
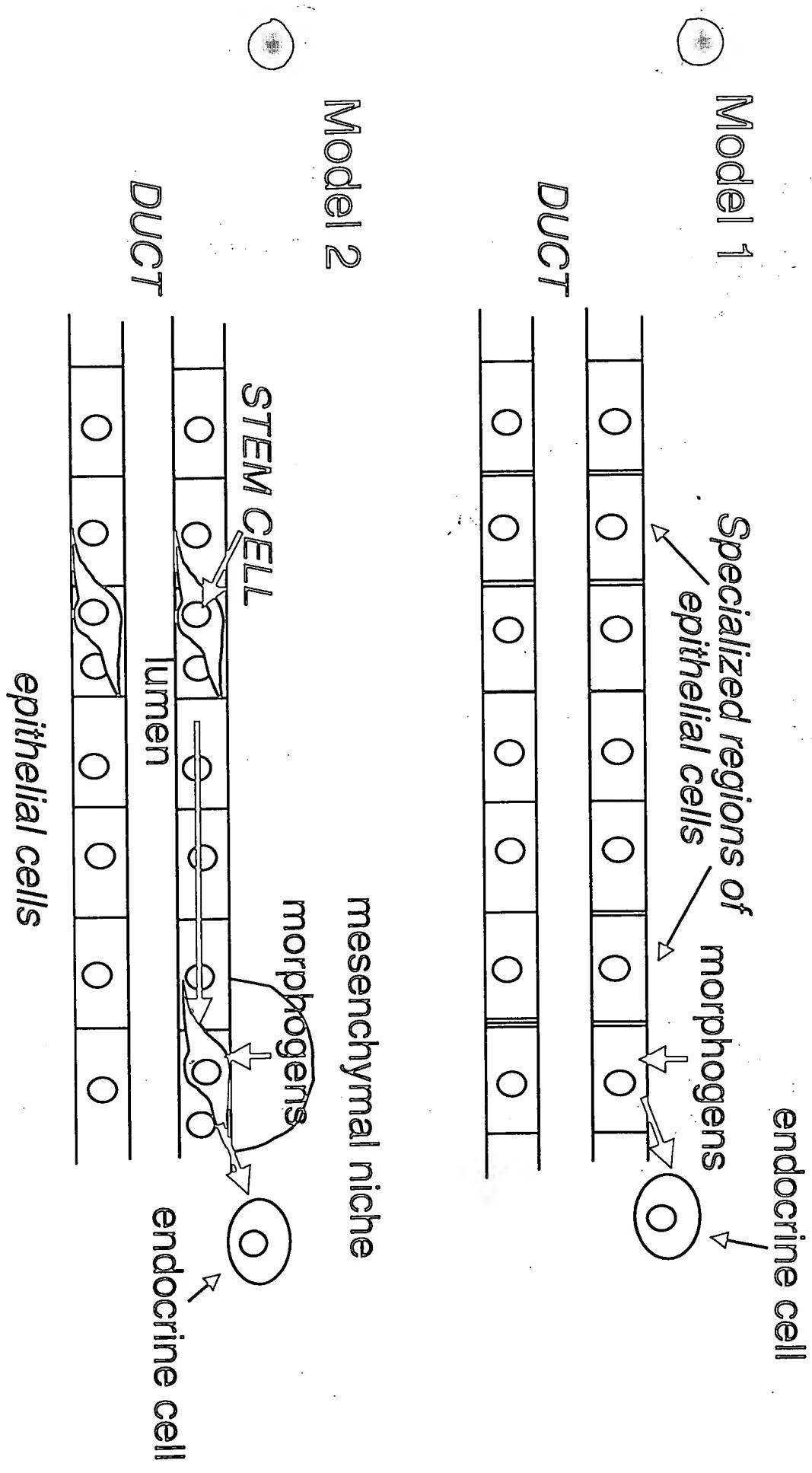


FIG 11



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FIG 13A



Fig 13 B

Sequence of transcription factors during development of the endocrine pancreas (mouse)

Day:

E8.5

E13

E14

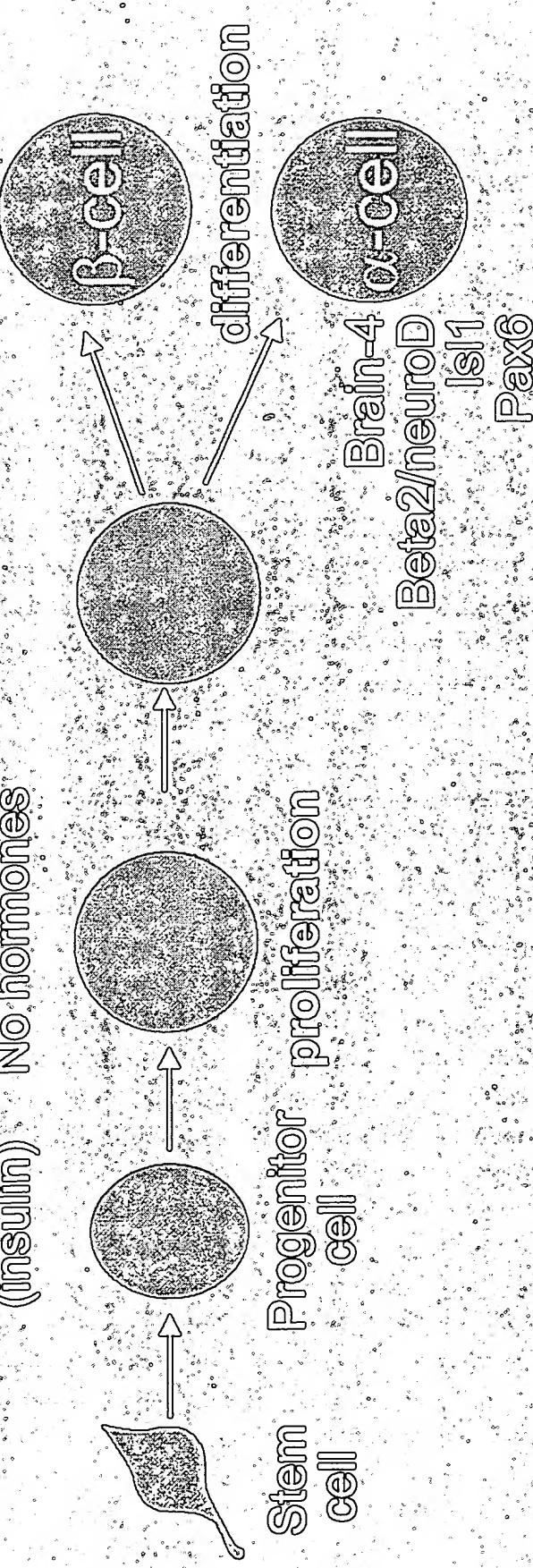
E15

1st transition

PDX-1
Beta2/neuroD

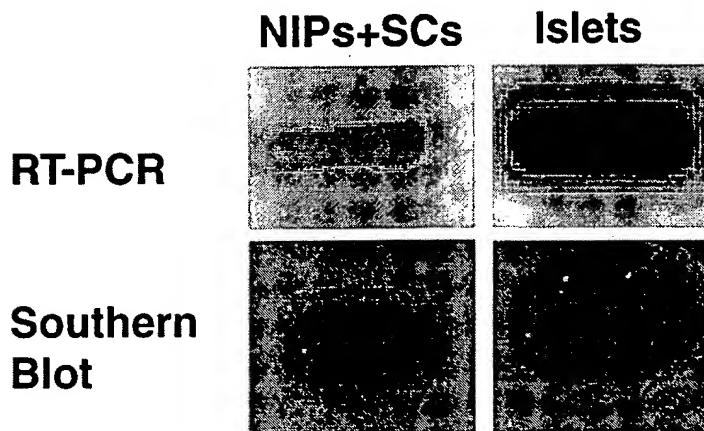
PDX-1
glucagon
Ngn-3
(insulin)
No hormones

Isl1
Pax6
Nkx6.1



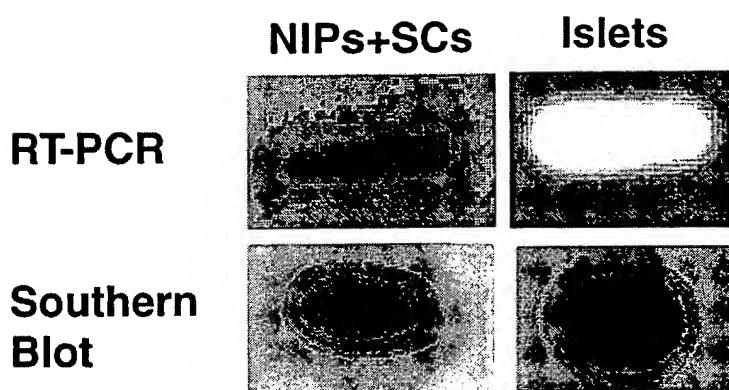
A

Proglucagon

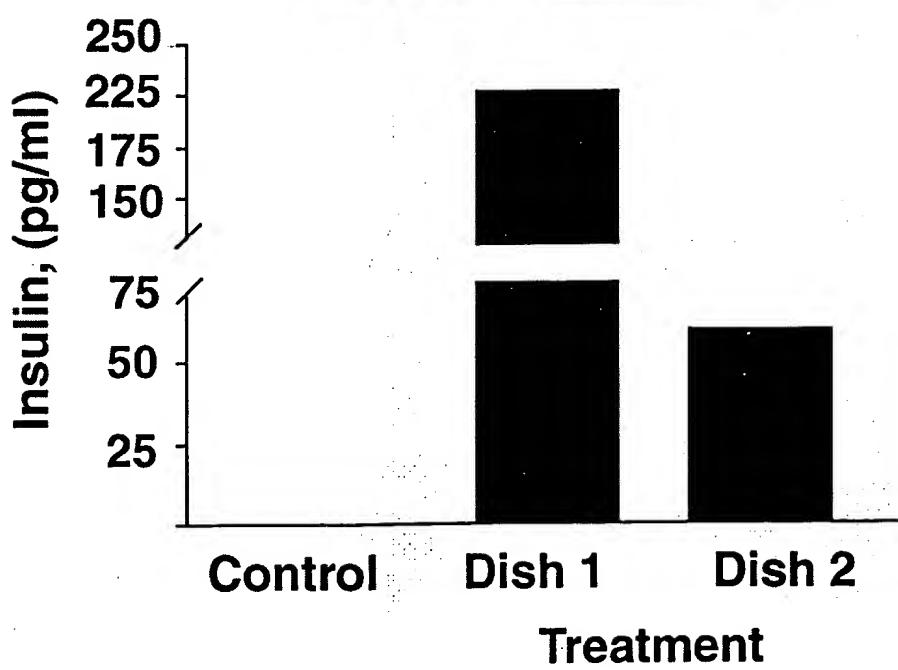


B

Insulin



C



NEURO-

ENDOCRINE

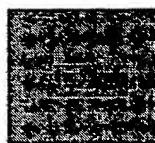
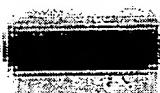
EXOCRINE

HEPATIC

SYN

AMY

TTR



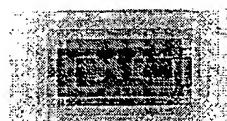
HGFR



CARB



HGF



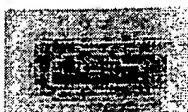
GLUT-2



E-CAD



XBP



AFP

